

Grade 7

AIIC1: Use variables to describe numerical expressions and relationships.

Key: D ($580 - m$)

The Nelson family is going on a 580-mile trip. If m is the number of miles that they have already traveled, which expression represents how many more miles they have left to travel?

☐ $580 + m$

☐ $580m$

☐ $m - 580$

☐ $580 - m$

Choice analysis:

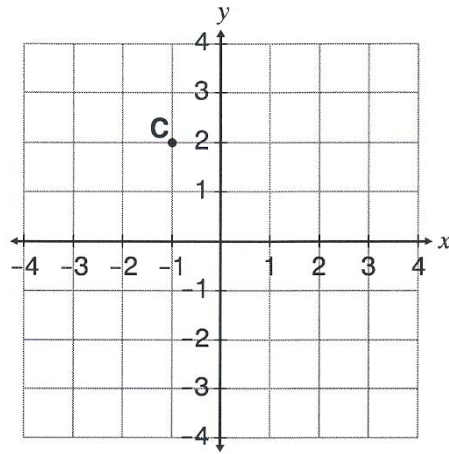
- A. Associates “more” with addition
- B. Relates any problem with distance to $D = R \times T$, so chooses multiplication
- C. Recognizes subtraction but reverses order.
- D. key

Grade 7

GIIA1: Identify and graph ordered pairs in the four quadrants of a coordinate plane.

GIIA1: Describe the transformation used to move a polygon in one quadrant to another quadrant in the coordinate plane

Key: B (-1, -2)



When point C is reflected over the x -axis, what are the coordinates of the reflected point?

- ☐ (-1, 2)
- ☐ (-1, -2)
- ☐ (1, -2)
- ☐ (1, 2)

Choice analysis:

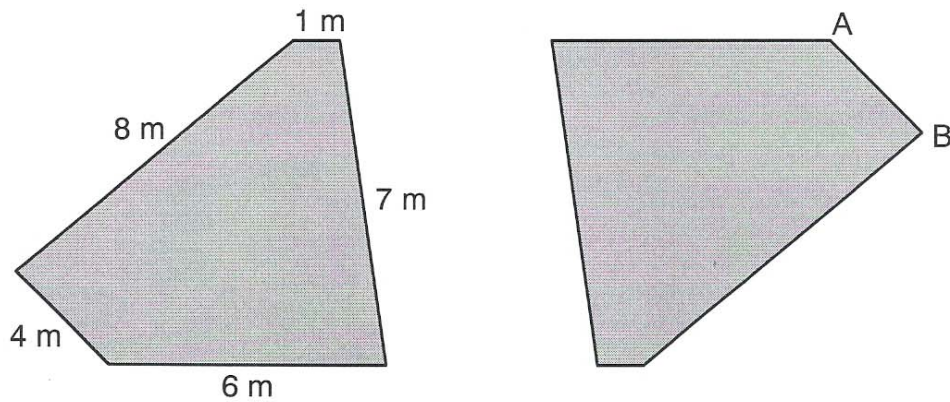
- A. Finds location of C
- B. key
- C. rotates 180 degrees
- D. reflects over y-axis

Grade 7

GIC1: Compare and contrast attributes of similar figures and the attributes of congruent figures

Key: D (4 m)

The pentagons shown below are congruent.



What is the length of \overline{AB} ?

- ☐ 8 m
- ☐ 7 m
- ☐ 6 m
- ☐ 4 m

Choice analysis:

- A. Compares AB to wrong side
- B. Compares AB to wrong side
- C. Compares AB to wrong side
- D. key

Grade 7

NIA1: Write and use the appropriate equivalent forms of whole numbers, fractions, decimals, and percents.

NID1: Create and write ratios and proportions from applied situations and explain the reasoning used.

Key: A ($\frac{56}{70}$)

Kevin's math teacher allows students to drop their lowest test score.
Kevin's test scores are shown below.

Test A: $\frac{56}{70}$

Test B: 42 out of 50

Test C: 82%

Test D: 83:100

Which test score should Kevin drop?

- ☐ Test A
- ☐ Test B
- ☐ Test C
- ☐ Test D

Choice analysis:

- A. key
- B. sees 42 as lowest option
- C. sees 82 as lower than 84 (B), and 83 (D), does not convert $\frac{56}{70}$ (A)
- D. looks for highest numbers